

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A coupling system between high-voltage electrical equipment including a connector that inserts in female connectors of the high voltage equipment the connector comprising:

an insulating shell inside which are housed conducting elements, whose external surface is partially covered by a conductive layer and

a mechanical protection device, ~~connected to the connector~~ being an independent part to the rest of the elements of the coupling system and disposed surrounding the conductive layer and in contact with said conductive layer.

2. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 1, wherein that the protection device consists of a conducting ring connected to earth.

3. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 2, wherein that the conducting ring connected to earth is metallic.

4. (Currently Amended) The coupling system between high-voltage electrical equipment according to claim 1, wherein the protection device includes an inductive current sensor.

5. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 4, wherein that the current sensor consists of a Rogowski coil.

6. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 4, wherein that the current sensor consists of a winding about a magnetic core.

7. (Previously Presented) The coupling system between high-voltage electrical equipment according to the claim 1, wherein in the protection device includes a capacitive voltage sensor.

8. (Currently Amended) The coupling system between high-voltage electrical equipment according to claim 1, ~~further comprising a second connector and~~
wherein the protection device encompasses all the connectors of the ~~phases of the~~ phases
of the coupling system between high-voltage equipment.

9. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 8, wherein the protection device consists of a conducting ring connected to earth.

10. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 9, wherein that the conducting ring connected to earth is metallic.

11. (Currently Amended) The coupling system between high-voltage electrical equipment according to claim 8, further comprising a current sensor that externally encompasses all phases of the coupling system between high voltage equipment.

12. (Previously Presented) The coupling system between high-voltage electrical equipment according to claim 11, further comprising a current sensor for each phase.

13. (Currently Amended) The coupling system between high-voltage electrical equipment according to claims 8, ~~including~~ wherein the protection device incorporates voltage detection for each phase of a main circuit.